

Listing of Claims:

1. (Currently Amended) A medical image radiographing
system comprising: (i) a radiographing apparatus for
radiographing a medical image of a patient by using a cassette,
(ii) an information management apparatus for managing
5 radiographing order information, (iii) a control apparatus for
controlling an operation of obtaining the medical image from the
cassette and for obtaining the radiographing order information
from the information management apparatus through a communication
network, and (iv) a portable terminal which is connectable to the
10 control apparatus,

wherein the control apparatus comprises:

a storage section for storing the radiographing order
information obtained from the information management apparatus;
and

15 an assigning section for assigning an operator for
performing radiography according to the stored radiographing
order information; ~~stored,~~

wherein the control apparatus transmits the radiographing
order information to the portable terminal along with operator
20 identification information of the assigned operator; ~~assigned,~~
and

wherein the portable terminal comprises:

an obtaining section for obtaining identification
information of the cassette;

25 a storage section for storing the radiographing order
information and the operator identification information
transmitted from the control apparatus, and for storing the
obtained identification information of the cassette in
correlation with the radiographing order information;

30 an authentication section for authenticating the
operator based on ~~the basis of~~ the stored operator identification
information ~~stored~~; and

 a display section for displaying the stored
radiographing order information ~~stored~~ when the authentication
35 section authenticates the operator.

2. (Original) The system of claim 1, wherein the portable
terminal further comprises a warning section for warning that the
operator is not assigned, when the authentication section does
not authenticate the operator.

3. (Currently Amended) The system of claim 1, ~~further
comprising~~ wherein the system comprises a plurality of control
apparatuses; [[,]]

wherein the portable terminal further comprises an input
5 section for inputting radiography completion information for
informing that the radiography according to the stored
radiographing order information ~~stored~~ is completed, and the
portable terminal transmits order identification information of
the radiographing order information according to which the
10 radiography has been completed ~~[[,]]~~ to ~~a~~ the control apparatus
~~which has that~~ transmitted the radiographing order information to
the portable terminal among the plurality of control apparatuses,
based on the input ~~on the basis of the~~ radiography completion
information; ~~input,~~ and

15 wherein the control apparatus that has received the order
identification information ~~each control apparatus~~ transmits the
order identification information of the radiographing order
information ~~transmitted from the portable terminal~~ to the other
control apparatuses, and when all of the plurality of control
20 apparatuses receive the order identification information of the
radiographing order information from any one of the plurality of
control apparatuses, all of the plurality of control apparatuses
delete the radiographing order information from the respective
storage ~~section~~ sections thereof.

4. (Original) The system of claim 3, wherein the portable terminal is connectable to a specific control apparatus among the plurality of control apparatuses.

5. (Original) The system of claim 3, wherein the portable terminal is connectable to any of the plurality of control apparatuses.

6. (Currently Amended) A method for displaying radiographing order information in a medical image radiographing system, wherein the medical image radiographing system comprises: (i) comprising a radiographing apparatus for radiographing a medical image of a patient by using a cassette, (ii) an information management apparatus for managing radiographing order information, (iii) a control apparatus for controlling an operation of obtaining the medical image from the cassette and for obtaining the radiographing order information from the information management apparatus through a communication network, and (iv) a portable terminal connectable to the control apparatus, the method comprising:

storing the radiographing order information obtained from the information management apparatus in a storage section of the control apparatus;

assigning an operator for performing radiography ~~of~~ in accordance with the stored radiographing order information ~~stored;~~

storing operator identification information of the assigned operator ~~assigned~~ and the radiographing order information in a storage section of the portable terminal;

obtaining identification information of the cassette at the portable terminal;

correlating the obtained identification information of the cassette with the radiographing order information in the storage section of the portable terminal;

authenticating the operator on the portable terminal based on the ~~basis of the~~ stored operator identification information ~~stored;~~ and

displaying the radiographing order information for which the operator is assigned on a display section of the portable terminal, when the operator is authenticated.

7. (Original) The method of claim 6, further comprising:
warning that the operator is not assigned when the operator is not authenticated.

8. (Currently Amended) The method of claim 6, wherein the medical image radiographing system further comprises a plurality

of control apparatuses, and the method further ~~comprising~~
comprises:

5 inputting radiography completion information at the portable
terminal for informing that the radiography according to the
radiographing order information is completed;

transmitting, based on the input radiography completion
information, order identification information of the
10 radiographing order information according to which the
radiography has been completed to the control apparatus, among
the plurality of control apparatuses, that transmitted the
radiographing order information to the portable terminal;

 transmitting the order identification information of the
15 radiographing order information from ~~a~~ the control apparatus
which has received the order identification information ~~among the~~
~~plurality of control apparatuses~~ to the other control
apparatuses; ~~among the plurality of control apparatuses based on~~
~~the radiography completion information input, the radiographing~~
20 ~~order information according to which the radiography has~~
~~completed, and~~

 deleting the radiographing order information according to
which the radiography has completed from storage sections of the
plurality of the control apparatuses when the plurality of
25 control apparatuses receive the order identification information
of the radiographing order information according to which the

radiography has completed from any one of the plurality of control apparatuses.

9. (Original) The method of claim 8, wherein the portable terminal is connectable to a specific control apparatus among the plurality of control apparatuses.

10. (Original) The method of claim 8, wherein the portable terminal is connectable to any of the plurality of control apparatuses.

11. (Currently Amended) A portable terminal in a medical image radiographing system, wherein the medical image radiographing system comprises: (i) a radiographing apparatus for radiographing a medical image of a patient by using a cassette,
5 (ii) an information management apparatus for managing radiographing order information, (iii) a control apparatus for controlling an operation of obtaining the medical image from the cassette and for obtaining the radiographing order information from the information management apparatus through a communication
10 network, and (iv) the portable terminal, the portable terminal comprising:

a receiving section for receiving radiographing order information including information related to a patient;

15 a display section for displaying the radiographing order
information;

an input section for inputting operator identification
information of an operator;

an obtaining section for obtaining identification
information of the cassette;

20 a storage section for correlating the identification
information of the cassette with the radiographing order
information;

25 an identification information authentication section for
authenticating the operator according to the operator
identification information input at the input section; and

a display control section for controlling display of the
information related to the patient on the display section based
on ~~the basis of~~ a result of operator authentication by the
identification information authentication section.

12. (Currently Amended) The portable terminal of claim 11,
~~further comprising a radiographing order information wherein the~~
~~storage section for storing stores~~ the radiographing order
information received by the ~~reception~~ receiving section; and
5 [[,]]

wherein the display control section ~~controls display on the~~
~~display section by downloading~~ downloads the information related

to the patient from the ~~radiographing order information~~ storage
section based on ~~the basis of~~ the result of operator
10 authentication by the identification information authentication
section.

13. (Currently Amended) The portable terminal of claim 11,
wherein, based on the result of operator identification by the
identification information authentication section, the display
control section ~~controls display on the display section by~~
5 ~~downloading~~ downloads, via the receiving section, the
radiographing order information, including the information
related to the patient, from the ~~by way of a control apparatus,~~
which has obtained the radiographing order information from ~~an~~
the information management apparatus ~~managing the radiographing~~
10 ~~order information on the basis of the result of operator~~
~~authentication by the identification information authentication~~
~~section.~~

14. (Currently Amended) The portable terminal of claim 11,
wherein the identification information authentication section is
set to operate in conjunction with a start-up of the portable
terminal.

15. (Currently Amended) A display control method for a portable terminal for displaying information related to a patient in a medical image radiographing system, wherein the medical image radiographing system comprises: (i) a radiographing apparatus for radiographing a medical image of a patient by using a cassette, (ii) an information management apparatus for managing radiographing order information, (iii) a control apparatus for controlling an operation of obtaining the medical image from the cassette and for obtaining the radiographing order information from the information management apparatus through a communication network, and (iv) the portable terminal, which is connectable to the control apparatus, the method comprising:

receiving the radiographing order information, which includes ~~including~~ the information related to ~~a~~ the patient;

displaying the radiographing order information on a display section;

inputting operator identification information of an operator;

authenticating the operator according to the input operator identification information ~~input; and~~

controlling display of the information related to the patient on the display section based ~~on the basis of~~ a result of the operator authentication;

obtaining identification information of the cassette; and

25 correlating the identification information of the cassette
with the radiographing order information.

16. (Currently Amended) The method of claim 15, further comprising storing the received radiographing order information ~~received,~~

5 wherein the controlling of the display of the information related to the patient includes ~~controlling display on the display section by~~ downloading the information related to the patient included in the stored radiographing order information ~~stored based on the basis of~~ the result of the operator authentication.

17. (Currently Amended) The method of claim 15, wherein the controlling of the display of the information related to the patient includes ~~controlling display on the display section by~~ downloading the information related to the patient ~~by way of a~~
5 from the control apparatus which has obtained the radiographing order information from ~~an~~ the information management apparatus, based on ~~managing the radiographing order information on the basis of~~ the result of the operator authentication.

18. (Original) The method of claim 15, wherein the authenticating the operator according to the identification

information is done in conjunction with a start-up of the portable terminal.

19. (Currently Amended) A computer-readable medium storing a computer program for making a computer execute: that is executable by computer of a portable terminal in a medical image radiographing system, wherein the medical image radiographing system comprises: (i) a radiographing apparatus for radiographing a medical image of a patient by using a cassette, (ii) an information management apparatus for managing radiographing order information, (iii) a control apparatus for controlling an operation of obtaining the medical image from the cassette and for obtaining the radiographing order information from the information management apparatus through a communication network, and (iv) the portable terminal, which is connectable to the control apparatus, the computer program causing the computer execute:

receiving the radiographing order information including information related to a patient;

displaying the radiographing order information on a display section;

receiving an input of operator identification information of an operator;

authenticating the operator according to the input operator
identification information input; ~~and~~

controlling display of the information related to the
patient on the display section based on ~~the basis of~~ a result of
the operator authentication;

obtaining identification information of the cassette; and
correlating the identification information of the cassette
with the radiographing order information.

20. (Currently Amended) A medical image radiographing
system comprising:

a control apparatus for controlling an operation of
obtaining a medical image and for storing radiographing order
information including information related to a patient so as to
be downloadable, and ~~capable of transmitting~~ which transmits the
radiographing order information to an external device in response
to a downloading instruction;

a network connected to the control apparatus;

a portable terminal for receiving the radiographing order
information through the network, ~~and~~ displaying the information
related to the patient after authenticating an operator when
providing the operator the radiographing order information,
obtaining identification information of a cassette recording the
medical image, which has been radiographed, and correlating the

identification information of the cassette with the radiographing order information; and

a radiographing apparatus for performing radiography of the patient in accordance with an instruction of the operator by
20 using the cassette.

21. (Currently Amended) The system of claim 20, wherein the portable terminal comprises:

a receiving section for receiving the radiographing order information including the information related to the patient;

5 a radiographing order information storage section for storing the radiographing order information received by the receiving section;

a display section for displaying the radiographing order information;

10 an input section for inputting operator identification information of ~~an~~ the operator;

an identification information authentication section for authenticating the operator according to the operator identification information input at the input section; and

15 a display control section for controlling display of the information related to the patient on the display section based on ~~the basis of~~ a result of operator authentication by the identification information authentication section.

22. (Currently Amended) The system of claim 21, wherein the display control section of the portable terminal ~~controls display on the display section by downloading~~ downloads the information related to the patient from the radiographing order information storage section based on ~~the basis of~~ the result of operator authentication by the identification information authentication section.

23. (Currently Amended) The system of claim 21, wherein, based on the result of operator identification by the identification information authentication section, the display control section of the portable terminal ~~controls display on the display section by downloading~~ downloads, via the receiving section, the radiographing order information, including the information related to the patient, from ~~by way of~~ the control apparatus, which has obtained the radiographing order information from the information management apparatus ~~managing the radiographing order information on the basis of the result of operator authentication by the identification information authentication section.~~

24. (Original) The system of claim 21, wherein the identification information authentication section of the portable

terminal is set to operate in conjunction with a start-up of the portable terminal.

25. (Currently Amended) A medical image radiographing system comprising:

a radiographing apparatus for radiographing a medical image of a patient by using a cassette;

5 a control apparatus for controlling an operation of obtaining the medical image from the cassette and for managing radiographing order information and a medical image related to the radiographing order information;

10 at least one portable terminal to which the control apparatus is capable of transmitting the radiographing order, and which obtains identification information of the cassette and correlates the identification information of the cassette with the radiographing order information;

15 an assigning section for assigning a portable terminal, among the at least one portable terminal, to which the control apparatus transmits the radiographing order information when the control apparatus transmits the radiographing order ~~apparatus~~ information to the at least one portable terminal; and

20 a communication control section for transmitting the radiographing order information to the assigned portable terminal ~~assigned~~.

26. (Currently Amended) The system of claim 25, further comprising a storage section for storing an address allocated for each of the at least one portable terminal;

5 wherein the assigning section assigns the portable terminal to which the control apparatus transmits the radiographing order information ~~to~~ with the address; and

wherein the communication control section controls communication of the system with the address.

27. (Original) The system of claim 26, wherein the control apparatus comprises the assigning section.

28. (Currently Amended) The system of claim 25, ~~further comprising~~ wherein the system comprises a plurality of control apparatuses, ~~wherein the plurality of control apparatuses which~~ are connected to each other through a network.

29. (Original) The system of claim 28, wherein the at least one portable terminal is capable of communicating with the plurality of control apparatuses through the network.

30. (Original) The system of claim 28, wherein the at least one portable terminal is capable of communicating with a

predetermined control apparatus among the plurality of control apparatuses.

31. (Currently Amended) A medical image radiographing system comprising:

a radiographing apparatus for radiographing a medical image of a patient by using a cassette;

5 _____a radiographing order generating apparatus for generating radiographing order information;

a control apparatus for obtaining the radiographing order information, controlling an operation of obtaining the medical image from the cassette, and ~~relatedly~~ managing the radiographing order information and at least one of information related to the radiographing order information and a medical image in relation to the radiographing order information;

10

at least one portable terminal to which the control apparatus is able to transmit the radiographing order, and which obtains identification information of the cassette and correlates the identification information of the cassette with the radiographing order information;

15

an assigning section for assigning a portable terminal, among the at least one portable terminal, to which the control apparatus transmits the radiographing order information ~~among the at least one portable terminal~~ when the control apparatus

20

transmits the radiographing order information to the at least one portable terminal; and

25 a communication control section for transmitting the radiographing order information to the assigned portable terminal ~~assigned.~~

32. (Currently Amended) The system of claim 31, further comprising a storage section for storing an address allocated for each of the at least one portable terminal; ; ~~[[,]]~~

5 wherein the assigning section assigns the portable terminal to which the control apparatus transmits the radiographing order information with the address; ; ~~[[,]]~~ and

wherein the communication control section controls communication of the system with the address.

33. (Original) The system of claim 32, wherein the control apparatus comprises the assigning section.

34. (Currently Amended) The system of claim 31, ~~further comprising~~ wherein the system comprises a plurality of control apparatuses, ~~wherein the plurality of control apparatuses~~ which are connected to each other through a network.

35. (Original) The system of claim 34, wherein the at least one portable terminal is capable of communicating with the plurality of control apparatuses through the network.

36. (Original) The system of claim 34, wherein the at least one portable terminal is capable of communicating with a predetermined control apparatus among the plurality of control apparatuses.

37. (Currently Amended) A medical image radiographing system comprising:

a radiographing apparatus for radiographing a medical image of a patient by using a cassette;

5 at least one control apparatus for controlling an operation of obtaining the medical image from the cassette and for managing radiographing order information and a medical image related to the radiographing order information;

10 at least one portable terminal comprising at least one of a receiving section for receiving the radiographing order information from the at least one control apparatus, and a transmitting section for transmitting a radiography result corresponding to the radiographing order information, and further comprising an obtaining section for obtaining identification
15 information of the cassette, and a storage section for

correlating the identification information of the cassette with the radiographing order information;

an assigning section for assigning at least one ~~of a~~ portable terminal, among the at least one portable terminal, to which the at least one control apparatus transmits the radiographing order information when the at least one control apparatus transmits the radiographing order information to the at least one portable terminal, and for assigning a control apparatus, among the at least one control apparatus, to ~~transmit~~ the which a radiography result to is transmitted when the at least one portable terminal transmits the radiography result to the at least one control apparatus; and

a communication control section for, when the assigning section assigns a portable terminal among the at least one portable terminal to ~~transmit which~~ the radiographing order ~~to is transmitted~~, ~~for~~ transmitting the radiographing order information to the assigned portable terminal, and for, when the assigning section assigns a control apparatus among the at least one control apparatuses to ~~transmit which~~ the radiography result ~~to is transmitted~~, for transmitting the radiography result to the control apparatus.

38. (Currently Amended) The system of claim 37, further comprising a storage section for storing an address allocated for each of the at least one portable terminal;_i [[,]]

wherein the assigning section assigns ~~a~~ the portable terminal among the at least one portable terminal to ~~transmit~~ which the radiographing order information ~~to~~ is transmitted with the address;_i [[,]] and

wherein the communication control section controls communication of the medical image radiographing system with the address.

39. (Currently Amended) The system of claim 37, further comprising a storage section for storing an address allocated for each of the at least one control apparatus,

wherein the assigning section assigns ~~a~~ the control apparatus among the at least one control apparatus to ~~transmit~~ which the ~~radiographing order information according to which radiography has been completed to~~ result is transmitted with the address, and

wherein the communication control section controls communication of the medical image radiographing system with the address.

40. (Currently Amended) The system of claim 38, wherein the storage section stores an address allocated for each of the at least one control apparatus, and the assigning section assigns ~~a~~ the control apparatus among the at least one control apparatus to which ~~transmit the radiographing order information according~~
5 ~~to which radiography has been completed to~~ result is transmitted with the address.

41. (Original) The system of claim 38, wherein the at least one control apparatus comprises the assigning section.

42. (Original) The system of claim 37, wherein each of the at least one control apparatus and the at least one portable terminal comprises the assigning section and the communication control section.

43. (Currently Amended) The system of claim 37, ~~further comprising~~ wherein the system comprises a plurality of control apparatuses, ~~wherein the plurality of control apparatuses which~~
are connected to each other through a network.

44. (Currently Amended) A medical image radiographing system comprising:

a radiographing apparatus for radiographing a medical image of a patient by using a cassette;

5 an information management apparatus for managing radiographing order information and transmitting the radiographing order information to outside ~~according to the~~ information management apparatus in accordance with an instruction through a communication network;

10 a plurality of control apparatuses for controlling an operation of obtaining the medical image from the cassette, generating a radiographing order list by receiving the radiographing order information from the information management apparatus through the communication network, transmitting ~~the~~
15 radiographing order information assigned in the radiographing order list to a portable terminal and relating the radiographing order information with radiography result related information transmitted from the portable terminal; and

at least one portable terminal connectable to at least one
20 of the plurality of control apparatuses for transmitting the radiography result related information corresponding to the radiographing order information received from the at least one of the plurality of control apparatuses to one of the plurality of control apparatuses,

25 wherein when one of the plurality of control apparatuses ~~relates~~ receives the radiographing order information with the

radiography result related information, the radiographing order information is deleted from the radiographing order list of the other control apparatuses.

Claim 45 (Canceled).

46. (Currently Amended) A medical image radiographing system comprising:

a radiographing apparatus for radiographing a medical image of a patient by using a cassette; [[,]]

5 an information management apparatus for managing radiographing order information and transmitting the radiographing order information to outside ~~according to the~~ information management apparatus in accordance with an instruction through a communication network;

10 a plurality of control apparatuses for controlling an operation of obtaining the medical image from the cassette, generating a radiographing order list by receiving the radiographing order information from the information management apparatus through the communication network, transmitting ~~the~~
15 radiographing order information assigned in the radiographing order list to a portable terminal and relating the radiographing order information with radiography result related information transmitted from the portable terminal; and

20 at least one portable terminal connectable to at least one
of the plurality of control apparatuses for displaying the
radiographing order information received from the at least one of
the plurality of control apparatuses;

25 wherein when any one of the plurality of control apparatuses
transmits the radiographing order information to any one of the
at least one portable terminal, the radiographing order
information is deleted from the radiographing order list of the
other control apparatuses.